Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

ILLINOIS EPA RCRA CORRECTIVE ACTION CERTIFICATION

This certification must accompany any document submitted to Illinois EPA in accordance with the corrective action requirements set forth in a facility's RCRA permit. The original and two copies of all documents submitted must be provided.

1.0 Facility Identification

Name: Equilon Enterprises LLC dba Shell Oil Products US
County: Madison
Street Address: 900 South Central Ave
Site No. (IEPA): 1191150002
City: Roxana, IL 62084
Site No. (USEPA): ILD 080 012 305

2.0 Owner Information

Name: Not Applicable
Mail Address:
City:
State: Zip Code:
Contact Name:
Contact Title:
Phone:

3.0 Operator Information

Name: Equilon Enterprises LLC dba SOPUS
Mail Address: 17 Junction Drive, PMB #399
City: Glen Carbon
State: IL Zip Code: 62034
Contact Name: Kevin Dyer
Contact Title: Principal Program Manager
Phone: 618-288-7237

4.0 Type of Submission (check applicable item and provide requested information, as applicable)

☐ RFI Phase I Workplan/Report
☐ RFI Phase II Workplan/Report
☐ CMP Report;
☑ Other (describe): Perched Groundwater Monitoring Locations

IEPA Permit Log No. B-43R
Date of Last IEPA Letter on Project: March 14, 2012
Log No. of Last IEPA Letter on Project: B-34R-CA-25

Does this submittal include groundwater information: ☑ Yes ☐ No

Date of Submittal: August 16, 2013

5.0 Description of Submittal: (briefly describe what is being submitted and its purpose)

Response to Condition 8 of the IEPA March 14, 2012 letter regarding the perched groundwater monitoring piezometers in the Roxana Interim Groundwater Monitoring Program.

6.0 Documents Submitted (identify all documents in submittal, including cover letter; give dates of all documents)

RCRA Corrective Action Certification, Perched Groundwater Monitoring Locations letter

7.0 Certification Statement

(This statement is part of the overall certification being provided by the owner/operator, professional and laboratory in Items 7.1, 7.2 and 7.3 below). The activities described in the subject submittals have been carried out in accordance with procedures approved by Illinois EPA. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7.1 Owner/Operator Certification

(Must be completed for all submittals. Certification and signature requirements are set forth in 35 IAC 702.126.) All submittals pertaining to the corrective action requirements set forth in a RCRA Permit must be signed by the person designated below (or by a duly authorized representative of that person):

1. For a Corporation, by a principal executive officer of at least the level of vice president.
2. For a Partnership or Sole Proprietorship, by a general partner or the proprietor, respectively.
3. For a Governmental Entity, by either a principal executive officer or a ranking elected official.

A person is a duly authorized representative only if:

1. the authorization is made in writing by a person described above; and
2. the written authorization is provided with this submittal (a copy of a previously submitted authorization can be used).

Owner Signature: _____ Date: _____

Title: _____

Operator Signature: Kevin E Dwyer Date: 8/14/13

Title: Principal Program Manager

7.2 Professional Certification (if necessary)

Work carried out in this submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. No one is relieved from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44 (h))

Professional's Signature: Robert Bellman Date: 8/16/13

Professional's Name Robert B. Billman

Address 1001 Highlands Plaza Drive

City St Louis

State MO Zip Code 63110

Phone 314-429-0100

Professional's Seal:

LICENSED PROFESSIONAL GEOLOGIST
ROBERT B. BILLMAN
196-000646
ILLINOIS

7.3 Laboratory Certification (if necessary)

The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory _____

_____ Date: _____

Signature of Laboratory Responsible Officer

Mailing Address of Laboratory

Address _____

City _____

State _____ Zip Code _____

_____

Name and Title of Laboratory Responsible Officer

URS

August 16, 2013

Mr. Steven F. Nightingale, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Subject: **Perched Groundwater Monitoring Locations**
Roxana, Illinois
119115002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R-CA-25

Dear Mr. Nightingale:

On behalf of Shell Oil Products US (SOPUS), URS Corporation (URS) is submitting this letter regarding the removal of the perched groundwater monitoring piezometers from the Interim Groundwater Monitoring Program. These piezometers, listed below, are located in the Village of Roxana, Illinois (Village) and in the Wood River Refinery (WRR). In the March 14, 2012 letter from Illinois Environmental Protection Agency (IEPA) to SOPUS, Condition 8 requested that perched groundwater be evaluated at the following existing perched groundwater monitoring piezometers:

- ROST-5-PZ
- ROST-7-PZ
- ROST-10-PZ
- ROST-21-PZ
- P-60-12S
- P-60-13S

The locations of these piezometers are shown on **Figure** 1.

Condition 8.a. of the March 14, 2012 IEPA letter stated piezometers ROST-5-PZ and ROST-10-PZ must be included in the Interim Groundwater Monitoring Program for at least one year before the determination is made that these piezometers are dry. All of these groundwater monitoring piezometers were incorporated into the program beginning in the 2nd Quarter 2012 (2Q12). Perched groundwater has been evaluated using the referenced piezometers in the Village and in the WRR along the West Fenceline from 2Q12 through 2nd Quarter 2013 (2Q13).

Perched Groundwater Monitoring Piezometer Construction

The 1-inch diameter "ROST" perched groundwater monitoring piezometers and the 0.75-inch diameter "P-60" perched groundwater monitoring piezometers are constructed of schedule 40 PVC. These piezometers have 10-foot long 0.010-inch slotted PVC well screens. The tops of the screens are located approximately 10 to 14 feet below ground surface (bgs) and the bottoms of the screens are located approximately 20 to 24 feet bgs, with the exception of ROST-7-PZ, which is screened from about 20 to 30 feet bgs. The perched groundwater piezometers are screened within fine grained sand located just above clay, silty clay and/or sandy clay zones that vary in thickness from 0.5 feet to 8 feet.

Perched Groundwater Monitoring Piezometers (Village)

Groundwater gauging at ROST-5-PZ and ROST-10-PZ began during 4th Quarter 2010 (2010). Groundwater has not been encountered at ROST-5-PZ since gauging began in 4Q10. Groundwater has not been encountered at ROST-10-PZ since 4Q10, with the exception of 3rd Quarter 2011 (3Q11) when only 0.12 to 0.33 feet of groundwater was observed. Based on the terms outlined in Condition 8.a. of the March 14, 2012 letter, it has been determined that these piezometers are dry and will no longer be included in the Roxana Interim Groundwater Monitoring Program and will be abandoned.

Groundwater gauging at ROST-7-PZ also began during 4Q10. Groundwater has been encountered at ROST-7-PZ since 4Q10, with 4.49 feet to 7.95 feet present within the piezometer. Sampling of the perched groundwater within ROST-7-PZ has been attempted every quarter since being incorporated into the Roxana Interim Groundwater Monitoring Program in the 2Q12. ROST-7-PZ could not be sampled according to the Standard Operating Procedure (SOP) due to the drawdown of water during purging and slow recharge (approximately 24-48 hours) of groundwater within the piezometer. Based on Condition 8 and Condition 8.a. of the March 14, 2012 letter, it has been determined that ROST-7-PZ is unable to be sampled and will no longer be included in the Roxana Interim Groundwater Monitoring Program and will be abandoned.

Groundwater gauging at ROST-21-PZ began during 4Q10. Groundwater was encountered at ROST-21-PZ from 4Q10 through 3Q11, with 0.41 feet to 1.63 feet present within the piezometer. Groundwater has sporadically been encountered in this piezometer since 4th Quarter 2011 (4Q11), with 0.19 feet of water observed in 1st Quarter 2012 (1Q12) and 0.66 feet of water observed in 3rd

Quarter 2012 (3Q12). Sampling of the perched groundwater within ROST-21-PZ was attempted in 3Q12, which is the only time that water has been encountered with this piezometer since being incorporated into the Roxana Interim Groundwater Monitoring Program in the 2Q12. ROST-7-PZ could not be sampled in 3Q12 according to the SOP due to the drawdown of water during purging, slow recharge (approximately 24-48 hours). ROST-21-PZ has been dry since 3Q12. Based on Condition 8 and Condition 8.a. of the March 14, 2012 letter, it has been determined that ROST-21-PZ is typically dry and is unable to be sampled when water is present. Piezometer ROST-21-PZ will no longer be included in the Roxana Interim Groundwater Program and will be abandoned.

Perched Groundwater Monitoring Piezometers (WRR)

Groundwater gauging at P-60-12S and P-60-13S began during 4Q10. Groundwater has been encountered at P-60-12S, with 0.48 feet to 5.59 feet observed between 4Q10 and 2Q13. Groundwater has been encountered at P-60-13S, with 1.56 feet to 6.64 feet observed. Sampling of the perched groundwater within both of these piezometers has been attempted every quarter since being incorporated into the Roxana Interim Groundwater Monitoring Program in the 2Q12. P-60-12S and P-60-13S could not be sampled according to the SOP due to the drawdown of water during purging and slow recharge (approximately 24-48 hours) of groundwater within the piezometer. Based on Condition 8 and Condition 8.a. of the March 14, 2012 letter, it has been determined that P-60-12S and P-60-13S are unable to be sampled and will no longer be included in the Roxana Interim Groundwater Monitoring Program and will be abandoned.

Table 1 presents a cumulative summary of the perched groundwater gauging data. **Table 2** presents of cumulative summary of the perched groundwater monitoring piezometer field parameters and sampling notes.

Based on the information presented above, per Condition 8 of the March 14, 2012 IEPA letter, it has been determined that ROST-5-PZ, ROST-10-PZ and ROST-21-PZ are dry, and that ROST-7-PZ, P-60-12S and P-60-13S are unable to be sampled per the project SOP. As such, these perched groundwater piezometers will be removed from the Roxana Interim Groundwater Monitoring Program and will be abandoned.

If you have any questions, please contact Kevin Dyer, SOPUS Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or Bob Billman at bob.billman@urs.com (314/743-4108).

Sincerely,

URS Corporation, on behalf of Shell Oil Products US

Wendy Pennington
Staff Environmental Engineer

Robert B. Billman
Senior Project Manager

Enclosures:
Table 1 Cumulative Summary of Perched Groundwater Monitoring Piezometer Gauging
Table 2 Cumulative Summary of Perched Groundwater Monitoring Well Field Parameters
Figure 1 Perched Groundwater Monitoring Piezometer Locations

Cc:
Kevin Dyer, SOPUS
Eric Petersen, Phillips 66
Marty Reynolds, Village of Roxana
Shannon Haney, Greensfelder Hemker
Project File
Repositories (Village Hall, Roxana Public Library, Roxana website)

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1
CUMULATIVE SUMMARY OF PERCHED GROUNDWATER MONITORING PIEZOMETER GAUGING

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	Water Thickness (ft)	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
ROST-5-PZ	***(Located in the Village Roxana)***										
4Q10	442.22	11/12/2010	NE	NE	NA	NA	NA	NA	NA		Well Dry
1Q11	442.22	1/13/2011	NE	NE	NA	NA	NA	NA	NA		Well Dry
2Q11	442.22	4/25/2011	NE	NE	NA	NA	NA	NA	NA		Well Dry
3Q11	442.22	7/5/2011	NE	NE	NA	NA	NA	NA	NA		Well Dry
	442.22	9/19/2011	NE	NE	NA	NA	NA	NA	NA		Well Dry
4Q11	442.22	10/5/2011	NE	NE	NA	NA	NA	NA	NA	429.02 - 419.02	Well Dry
1Q12	442.22	1/3/2012	NE	NE	NA	NA	NA	NA	NA	(13.20 - 23.20)	Well Dry
2Q12	442.22	4/2/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
3Q12	442.22	7/2/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
4Q12	442.22	10/1/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
1Q13	442.22	1/2/2013	NE	NE	NA	NA	NA	NA	NA		Well Dry
2Q13	442.22	4/1/2013	NE	NE	NA	NA	NA	NA	NA		Well Dry
ROST-7-PZ	***(Located in the Village Roxana)***										
4Q10	442.19	11/12/2010	NE	22.93	NA	7.07	NA	NA	419.26		
1Q11	442.19	1/13/2011	NE	23.74	NA	6.26	NA	NA	418.45		
2Q11	442.19	4/25/2011	NE	23.72	NA	6.28	NA	NA	418.47		
3Q11	442.19	7/5/2011	NE	22.05	NA	7.95	NA	NA	420.14		
	442.19	9/19/2011	NE	22.63	NA	7.37	NA	NA	419.56		
4Q11	442.19	10/5/2011	NE	22.52	NA	7.48	NA	NA	419.67	422.19 - 412.19	
1Q12	442.19	1/3/2012	NE	23.64	NA	6.36	NA	NA	418.55	(20.00 - 30.00)	
2Q12	442.19	4/2/2012	NE	24.08	NA	5.92	NA	NA	418.11		
3Q12	442.19	7/2/2012	NE	23.33	NA	6.67	NA	NA	418.86		
4Q12	442.19	10/1/2012	NE	23.86	NA	6.14	NA	NA	418.33		
1Q13	442.19	1/3/2013	NM	NM	NA	NA	NA	NA	NA		Well inaccessible
2Q13	442.19	4/1/2013	NM	25.51	NA	4.49	NA	NA	416.68		
ROST-10-PZ	***(Located in the Village Roxana)***										
4Q10	444.51	11/12/2010	NE	NE	NA	NA	NA	NA	NA		Well Dry
1Q11	444.51	1/13/2011	NE	NE	NA	NA	NA	NA	NA		Well Dry
2Q11	444.51	4/25/2011	NE	NE	NA	NA	NA	NA	NA		Well Dry
3Q11	444.51	7/5/2011	NE	19.67	NA	0.33	NA	NA	424.84		
	444.51	9/19/2011	NE	19.88	NA	0.12	NA	NA	424.63		
4Q11	444.51	10/5/2011	NE	NE	NA	NA	NA	NA	NA	434.51 - 424.51	Well Dry
1Q12	444.51	1/3/2012	NE	NE	NA	NA	NA	NA	NA	(10.00 - 20.00)	Well Dry
2Q12	444.51	4/2/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
3Q12	444.51	7/2/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
4Q12	444.51	10/1/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
1Q13	444.51	1/3/2013	NE	NE	NA	NA	NA	NA	NA		Well Dry
2Q13	444.51	4/1/2013	NE	NE	NA	NA	NA	NA	NA		Well Dry

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 1
CUMULATIVE SUMMARY OF PERCHED GROUNDWATER MONITORING PIEZOMETER GAUGING

WELL ID	TOP OF CASING (elev.[1])	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.[1])	Water Thickness (ft)	PRODUCT (elev.[1])	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL[2] (elev.[1])	SCREENED INTERVAL (elev.[1]) (ft btoc)	COMMENTS
ROST-21-PZ	***(Located in the Village Roxana)***										
4Q10	443.72	11/12/2010	NE	19.30	NA	0.70	NA	NA	424.42		
1Q11	443.72	1/13/2011	NE	19.59	NA	0.41	NA	NA	424.13		
2Q11	443.72	4/25/2011	NE	19.04	NA	0.96	NA	NA	424.68		
3Q11	443.72	7/5/2011	NE	18.37	NA	1.63	NA	NA	425.35		
	443.72	9/19/2011	NE	19.26	NA	0.74	NA	NA	424.46		
4Q11	443.72	10/5/2011	NE	NE	NA	NA	NA	NA	NA	433.72 - 423.72 (10.00 - 20.00)	Well Dry
1Q12	443.72	1/3/2012	NE	19.81	NA	0.19	NA	NA	423.91		
2Q12	443.72	4/2/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
3Q12	443.72	7/2/2012	NE	19.34	NA	0.66	NA	NA	424.38		
4Q12	443.72	10/1/2012	NE	NE	NA	NA	NA	NA	NA		Well Dry
1Q13	443.72	1/3/2013	NE	NE	NA	NA	NA	NA	NA		Well Dry
2Q13	443.72	4/1/2013	NE	NE	NA	NA	NA	NA	NA		Well Dry
P-60-12S	***(Located on WRR North Property along the west fenceline)***										
4Q10	443.33	11/11/2010	NE	23.36	NA	0.48	NA	NA	419.97		
1Q11	443.33	1/14/2011	NE	NE	NA	NA	NA	NA	NA		Well dry
2Q11	443.33	4/25/2011	NE	21.84	NA	2.00	NA	NA	421.49		
3Q11	443.33	7/5/2011	21.10	21.11	422.22	2.73	422.23	0.01	422.23		
4Q11	443.33	10/6/2011	NE	23.36	NA	0.48	NA	NA	419.97	429.49 - 419.49 (13.84 - 23.84)	
1Q12	443.33	1/4/2012	NE	22.81	NA	1.03	NA	NA	420.52		
2Q12	443.33	4/3/2012	NE	20.21	NA	3.63	NA	NA	423.12		
3Q12	443.33	7/5/2012	NE	19.48	NA	4.36	NA	NA	423.85		
4Q12	443.33	10/2/2012	NE	19.04	NA	4.80	NA	NA	424.29		
1Q13	443.33	1/4/2013	NE	19.35	NA	4.49	NA	NA	423.98		
2Q13	443.33	4/11/2013	NE	18.25	NA	5.59	NA	NA	425.08		
P-60-13S	***(Located on WRR North Property along the west fenceline)***										
4Q10	442.39	11/11/2010	NE	13.36	NA	6.64	NA	NA	429.03		
1Q11	442.39	1/14/2011	NE	NE	NA	NA	NA	NA	NA		Well dry
2Q11	442.39	4/25/2011	NE	17.45	NA	2.55	NA	NA	424.94		
3Q11	442.39	7/5/2011	NE	17.08	NA	2.92	NA	NA	425.31		
4Q11	442.39	10/6/2011	NE	18.44	NA	1.56	NA	NA	423.95	432.39 - 422.39 (10.00 - 20.00)	
1Q12	442.39	1/4/2012	NE	17.66	NA	2.34	NA	NA	424.73		
2Q12	442.39	4/3/2012	NE	17.58	NA	2.42	NA	NA	424.81		
3Q12	442.39	7/5/2012	NE	17.87	NA	2.13	NA	NA	424.52		
4Q12	442.39	10/2/2012	NE	17.97	NA	2.03	NA	NA	424.42		
1Q13	442.39	1/4/2013	NE	NE	NA	NA	NA	NA	NA		Well dry
2Q13	442.39	4/11/2013	NE	17.03	NA	2.97	NA	NA	425.36		

NOTES:

1) Elevations presented in this table are relative to the 1988 USGS datum.

2) The Corrected W.L. Elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.

3) NA = Not Applicable; NE = Not Encountered; NM = Not Measured

TABLE 2
CUMMULATIVE SUMMARY OF PERCHED GROUNDWATER MONITORING PIEZOMETER FIELD PARAMETERS

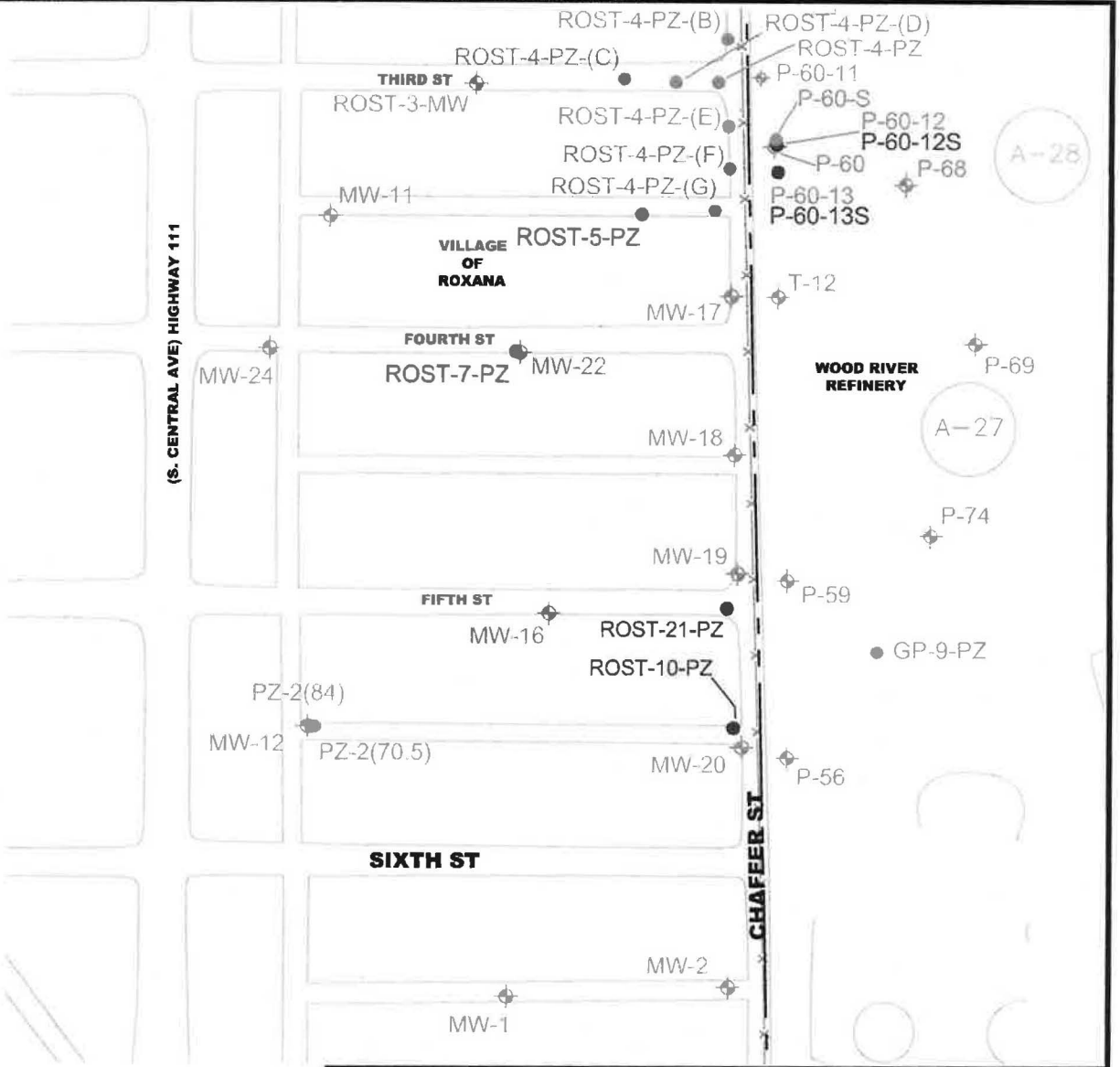
Well ID	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
ROST-5-PZ *(Located in the Village of Roxana)*							
2Q12	NM	NM	NM	NM	NM	NM	Well is dry.
3Q12	NM	NM	NM	NM	NM	NM	Well is dry.
4Q12	NM	NM	NM	NM	NM	NM	Well is dry.
1Q13	NM	NM	NM	NM	NM	NM	Well is dry.
2Q13	NM	NM	NM	NM	NM	NM	Well is dry.
ROST-7-PZ *(Located in the Village of Roxana)*							
2Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
ROST-10-PZ *(Located in the Village of Roxana)*							
2Q12	NM	NM	NM	NM	NM	NM	Well is dry.
3Q12	NM	NM	NM	NM	NM	NM	Well is dry.
4Q12	NM	NM	NM	NM	NM	NM	Well is dry.
1Q13	NM	NM	NM	NM	NM	NM	Well is dry.
2Q13	NM	NM	NM	NM	NM	NM	Well is dry.
ROST-21-PZ *(Located in the Village of Roxana)*							
2Q12	NM	NM	NM	NM	NM	NM	Well is dry.
3Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q12	NM	NM	NM	NM	NM	NM	Well is dry.
1Q13	NM	NM	NM	NM	NM	NM	Well is dry.
2Q13	NM	NM	NM	NM	NM	NM	Well is dry.
P-60-12S *(Located on WRR North Property all the west fenceline)*							
2Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
2Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
P-60-13S *(Located on WRR North Property all the west fenceline)*							
2Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
3Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
4Q12	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP
1Q13	NM	NM	NM	NM	NM	NM	Well is dry.
2Q13	NM	NM	NM	NM	NM	NM	Slow recharge prevented sampling per the SOP

NOTES:
1) NM = Not Measured

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\SHELL OIL PRODUCTS US 2013\21562850 - ROXANA\21562850-4_GROUNDWATER\PERCHED ZONE\REQUEST REMOVE PERCHED WELLS\FIG 1 PERCHED PIEZO LOCATIONS.DWG Last edited: MAY 03, 13 @ 10:40 a.m. by: wendy_pennington

LEGEND

- PERCHED PIEZOMETER LOCATION
- PIEZOMETER LOCATION
- MONITORING WELL LOCATION



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SCALE FEET

SHELL OIL PRODUCTS US ROXANA, ILLINOIS	PROJECT NO. 21562850
URS	
DRN. BY:djd May 2013 DSGN. BY:djd CHKD. BY:b3	Perched Groundwater Monitoring Piezometer Location
	FIG. NO. 1